

Physical Metallurgy and Technology of Heat Treatment

841

Kirpichnikov, K.S., Candidate of Technical Sciences, Docent. Rapid Annealing of Semifinished Articles Cold-formed from D16 and AV (AK5) Aluminum-Alloy Sheet

17

The author describes the results of applying new regimes of rapid annealing for heat-treated aluminum alloys. In addition, he outlines the principles of designing equipment for rapid annealing.

Vishnyakov, D.Ya.; Figel'man, M.A., Engineer; Trifonova, O.L., Engineer. Some Properties of EI659 Medium-Alloy Steel

34

The author studies the effect of the degree of plastic deformation and the rate of cooling on the properties of this steel, tested at various temperatures. This type of steel contains small to moderate amounts of chromium, nickel, tungsten, and vanadium. There are 4 references, all Soviet.

Vishnyakov, D.Ya.; Vinit'skiy, A.G., Candidate of Technical Sciences. A Study of the Wear Resistance of Carbon Steels

43

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Author's conclusions: 1. Carbon steels with a laminated pearlitic structure are more wear-resistant than steels with a granular pearlitic structure. 2. An increase in the amount of laminar pearlite results in a drop in the rate of wear, especially in hypoeutectoid steels. There are 4 references, all Soviet.

Vishnyakov, D.Ya.; Vinit'skiy, A.G. Effect of Structure on the Wear Resistance of Iron-Chromium-Carbon Alloys

50

Author's conclusions (in part): 1. An increase in the quantity of special carbides in annealed and hardened chrome steels increases their wear resistance. 2. A given quantity of cubic crystals of chromium carbide imparts greater wear resistance than the same quantity of trigonal carbides, other conditions being equal. 3. The relationship between wear resistance, hardness, and certain other mechanical properties of annealed chrome steels can be observed only within the limits of identical structures. There are 3 references, all Soviet.

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Livanov, V.A., Candidate of Technical Sciences; Vozdvizhenskiy, V.M.,
Candidate of Technical Sciences. Recrystallization of Aluminum-Manganese
Alloys

65

The authors study the recrystallization process of aluminum-manganese alloys as affected by the amount of manganese in solid solution, the quantity and distribution of dispersed phases, and nonuniformity of chemical composition and structure. There are 18 references, of which 8 are Soviet, 8 English, and 2 German.

Livanov, V.A.; Vozdvizhenskiy, V.M. Effect of Addition Elements on the
Solubility of Manganese in Aluminum

84

The authors study the effect of small amounts of iron, silicon, and titanium on the solubility of manganese in aluminum. There are 15 references, of which 3 are Soviet, 8 English, and 4 German.

Vishnyakov, D.Ya.; Sovalova, A.A., Candidate of Technical Sciences, Docent;
Smirnova, K.A. Mechanical Properties of Steels at Low Temperatures

100

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Physical Metallurgy and Technology of Heat Treatment 841

Results are given of an investigation of the effect of the composition and heat treatment of certain alloy structural steels on the cold brittleness of the steels at sub-zero temperatures. There are 3 references, all Soviet.

Sovalova, A.A.; Kornilova, Z.I., Engineer. Scale Resistance of Certain Nickel-Base Alloys 107

The authors compare the scale resistance of three nickel-base alloys at various temperatures with that of an iron-base aircraft-construction alloy.

Neustruyev, A.A., Candidate of Technical Sciences. Heat Exchange in Continuous Convection Furnaces 113

Neustruyev compares uniflow and counterflow furnaces of the above type and concludes that preference should be given to the counter-flow variety. There are 6 references, all Soviet.

Neustruyev, A.A., Candidate of Technical Sciences. Special Features of Heating Elongated Items of Aluminum Alloys in Convection Furnaces 129

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The author discusses the special problems connected with the heat treatment, especially hardening, of elongated aluminum-alloy semi-finished products (shapes, pipes, sheet, etc.), particularly such problems as maintaining constant temperature and the achievement of rapid and uniform heating. There are 5 references, of which 4 are Soviet and 1 is German.

Livanov, V.A.; Yelagin, V.I., Candidate of Technical Sciences. Investigation of AMg6 Heat-resistant Alloy with Additions of Iron and Nickel 138
The author's investigation shows that small additions of iron (0.08-0.92%) and nickel (0.17-0.72%) do not improve the mechanical properties of AMg6 alloy (Al + 6% Mg) at elevated temperatures. There are 7 references, of which 5 are Soviet, 1 is English, and 1 German.

Livanov, V.A.; Yelagin, V.I. The Extrusion Effect at Elevated Temperatures 143
An investigation of the "extrusion effect" (increased strength as a result of the extrusion process) in aluminum-magnesium alloys with additions of chromium and manganese (together and separately) shows

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that these alloys retain their increased strength even after cold drawing. It is further shown that the extrusion effect is preserved at elevated temperatures (300° C) and is observed both in the short-time strength test and in the long-time hardness test. There are 10 references, of which 8 are Soviet and 2 German.

Petrov, D.A., Professor, Doctor of Technical Sciences; Bukhanova, A.A., Candidate of Technical Sciences. Change in Shape and Recrystallization of Crystalline Substances During Solution and Growth in the Solid Phase

161

The authors investigate the changes in crystalline structure which occur during the annealing of various alloys.

Kolachev, B.A., Candidate of Technical Sciences. The Effect of Chromium, Manganese, and Iron on the Natural Aging of Aluminum-Copper Alloys

172

Results are given of an investigation of the effect of chromium, manganese, and iron on the aging of aluminum alloys containing 4 percent of copper. There are 9 references, of which 4 are Soviet, 3 German, and 2 English.

AVAILABLE: Library of Congress

Card 8/8

GO/mas
11-28-58

VISHNYAKOV, D.Ya., doktor tekhn.nauk, prof.; FIGEL'MAN, H.A., inzh.;

TRIFONOVA, O.L., inzh.

Some properties of EI659 low-alloy steel. Trudy VTI no.31:34-42
'58. (MIRA 11:7)

(Steel alloys--Testing)

VOLOSHCHUK, V.U.; TRIFONOVA, R.G.; ZVEREVA, Ye.V.; TARNAVSKIY, A.L.;
ASHURKINA, Ye.M.; IVANOV, V.P.

New developments in research. Stal' 23 no.9:858 S '63.
(MIRA 16:10)

L 43079-66 EWT(m)/EMP(w)/T/EWP(t)/ETI/EMP(k) LJP(c) JD/HW
 ACC NR: AR6014375 (A,N) SOURCE CODE: UR/0137/65/000/011/DO05/DO06

AUTHORS: Pavlov, A. M.; Zuyev, B. M.; Chukin, V. V.; Trifonova, R. G.; Kashkina, L. N.

TITLE: Formation of elastic-plastic properties of steel cables

SOURCE: Ref. zh. Metallurgiya, Abs. 11D39

REF SOURCE: Sb. Stal'n. kanaty. Vyp. 2. Kiyev, Tekhnika, 1965, 355-359

TOPIC TAGS: wire, wire product, rupture strength, flow stress

ABSTRACT: Increasing the degree of deformation of surface layers during straightening leads to a decrease of the elastic and flow limits, however, the overall effect achieved by this method is negligible. The increase in the degree of deformation during straightening has a negative effect on the time dependence of rupture strength. Straightening of cable drastically reduces the magnitude of residual tensions in the surface layers of the cable. This explains the observed lowering of the elastic and flow limits. 3 illustrations. L. Kochenova [Translation of abstract]

SUB CODE: 11,13,20
 Card 1/1 af

UDC: 621.771.001

L 15509-63

ENT(1)/ENP(q)/ENT(m)/BDS

AFFTC/ASL

S/0133/63/000/009/0858/0858

ACCESSION NR: AP3006528

59

AUTHOR: Trifonova, R. G.

TITLE: Use of ultrasound in pickling metal 14

SOURCE: Stal', no. 9, 1963, 858

TOPIC TAGS: steel pickling, pickling acceleration, ultrasonic
chemical pickling, ultrasonic electrochemical pickling

ABSTRACT: The Zlatoust metallurgical plant has experimented with
ultrasonic pickling of steel rods. The ultrasound increased the rate
of chemical pickling 4-7.5 times.
0.40% Ni, and 18KhNVA (0.1% Ni, 0.80-1.20% W) steel rods. The ultrasound increased the rate
of chemical pickling 4-7.5 times.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 30Sep63

ENCL: 00

SUB CODE: MA, ML

NO REF SOV: 000

OTHER: 000

Card 1/1

TRIFONOVA, S.F.

USSR/Pharmacology, Toxicology. Ganglioblocking Drugs

U-4

Abs Jour : Ref Zhur - Biol., No 4, 1958, No 17593

Author : Trifonova S.F.

Inst : Not Given

Title : An Experiment in the Use of Pachycarpine in Uterine Sub-
involution after Birth

Orig Pub : Akusherstvo i ginekologiya, 1957, No 2, 89

Abstract : Pachycarpine was used in a dose of 0.1 g 3 times daily in 120
births. The treatment began in the majority of cases on the
2-4th day after delivery. After 2-5 days of treatment the
uterus contracted well, the height in a standing posture de-
creased by 2-3 cm. There was no unfavorable effect on lactation.

Card : 1/1

TRIFONOVA, S.F.

Influence of brucellosis on menstrual function. Vop. okh. mat.
1 det. 5 no. 2:62-64, Mr-Apr '60. (MIRA 13:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.B.
Gillerson) Omskogo gosudarstvennogo meditsinskogo instituta imeni
M.I. Kalinina.
(BRUCELLOSIS) (MENSTRUATION)

GARKUSHA, I.F., prof.; TRIMA, N.K., otvet. za vypusk

[Introduction to the course in soil science] Vvedenie k kursu poch-
vovedeniia; leksiia dlia studentov agronomicheskogo fakul'teta.
Gor'ki, Belorusskaia sel'khov. akad., 1958. 32 p. (MIRA 14:10)
(Soil science—Study and teaching)

ALEXANDRU, M., ing.; BLUM, R.; DICEA, O., geolog; TRIMBITAS, I., ing.

Considerations on the seismic prospecting works in platform
zones. Petrol si gaze 14 no. 6: 273-290 Je '63

TRUB, Y. A., KULIKOV, L. B., KOLIN, I. I., and KOLIN, Y. I.

Abstract:

"Problem of labor hygiene in the cotton ginning and cotton oil industry."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

TRIMMER, J.B.; MAKRA, Zsigmond [translator]

Hotel management in Ergodia. Fiz szemle 13 no.4:110-112 Ap '63.

TRIMONIS, I.A. (1954),

"Determining the Thickness of Thin Surface Layers With X-Rays." Cand Phys-Math Sci, (no inst given), Vil'nyus, 1954. (RZhKhim, No 23, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

TRIMONOV

S.

USSR / Farm Animals. Honeybees..

Q-5

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105778.

Author : Trimonov, S.

Inst : Not given.

Title : Our Experience in Open Air Wintering of Honeybees in an Apiary.

Orig Pub: S. Kh. Sibiri, 1958, No 4, 70-73.

Abstract: From 27 colonies which wintered in the open in 1954-1956 a gross honey - crop of 40.3 kg. per colony was obtained, and from 22 colonies which wintered in a protected place - 31.4 kg. The cold was reaching 46-60°C but no death loss of bees was observed. The hives were two-colony, horizontal, with walls of 106 mm. total thickness out of which 40-45 mm. was filled with insulating material.

Card 1/1

TRIMPOLETS, D.A., inzh.

Artificial wave generator for controlling the development in water of blood-sucking mosquitoes. Gig. 1 san. 26 no.5:91 My '61.

1. Iz Khar'kovskogo otdeleniya gosudarstvennogo proyektnogo instituta Vodokanalproyekt.

(MOSQUITOES--EXTERMINATION)

TRINAJSTIC, Ljubo, ing.

Our industry of pharmaceutical chemicals. Alm hem ind 64-71 '56.

TRINAJSTIC, Ljubo, ing.; MRAKOVCIĆ, Thoraj, dipl.ec.

State and prospective needs of professional cadres of the chemical industry of the People's Republic of Croatia. Kem ind 9 no.12:307-311 D '60.

TRINAJSTIC, Ljubo, inz.; Kosi, Otmar, inz.

Problems of schools and skilled vocational cadres
for chemical industries and scientific research.
Alm hem ind 239-257 '62.

KOLAR, Z.; DEZELIC, Gj.; RANDIC, M.; TRINAJSTIC, N.; SEKE, V.

Book reviews. Croat chem acta 35 no.4:315-319 '63.

1. Clan Redakcionog odbora, "Croatica Chemica Acta" (for Randic).

Urology

RUMANIA

TARCOVEANU, Gh., Dr, Col, TRINCA, D., Dr, Lt-Col, and PLOSCARU, V., Dr, Lt-Col [affiliation not given]

"Considerations on Urolithiasis Patients Hospitalized in the Surgery Section of the Pitesti Military Hospital in Recent Years (1961-1965)."

Bucharest, Revista Sanitara Militara, Vol 62, No 4, Jul-Aug 66, pp 691-697.

Abstract: A discussion and analysis of 184 cases of urolithiasis treated at the Pitesti Military Hospital during a five-year period, representing 2.9 percent of the total number of surgical cases during the period. Male patients accounted for 118 cases and females for 66 cases, and more of the patients came from an urban environment than from a rural one. The basic diagnostic step was the direct radiography of the urinary apparatus. A variety of therapeutic methods was used.

Includes 16 references, of which 10 Rumanian, one Russian, one French and 4 English-language. -- Manuscript submitted 5 October 1965.

1/1

TRINCA, Francisc

From the experience of a Rumanian trade union in the organization and guidance of public control. Munca sindic 7 no.4:55-57 Ap '63.

1. Presedinte al Consiliului local al sindicatelor Lugoj.

TRINCA, Virgil, correspondent

Calling for socialist competition. Constr Buc 14 no.649:1 16 Je
'62.

TRINCHENKO, I.

Mechanized cleaning of interrows on carrot fields. Nauka 1 period.
op. v sel'khoz. 8 no.4:40-41 Ap '58. (MIRA 11:5)
(Weed control) (Carrots)

TRINCHENKO, I. V., Cand Agr Sci -- (diss) "Mechanized procedures in the clearing of soil layer over germinated carrot seeds as a method of weed control." Leningrad-Pushkin, 1960. 20 pp with illustrations; (Ministry of Agriculture RSFSR, Leningrad Agricultural Inst;; 150 copies; price not given; (KL, 27-60, 157)

PLANE I BOOK EXPLANATION 80W/5452

Pomay, Ya. Ic., G.I. Kordash, and I.P. Lyulyuk, eds.

Mekhanizatsiya i avtomatizatsiya: sbornik statey ob opyite vvedeniya mekhanizatsii i avtomatizatsii na khar'kovskikh mashinostroitel'nykh zavodakh (Mechanization and Automation: Collection of Articles on the Introduction of Mechanization and Automation in Kharkov Machinery-Manufacturing Plants) [Khark'ov] Khar'kovskoye knizhnoye izd-vo, 1960. 373 p. 3,900 copies printed.

Editorial Board: S.A. Vorob'yev, Candidate of Technical Sciences; Chairman of the Editorial Board: P.I. Zengs, Engineer; A.A. Khar'kov, Engineer; V.I. Khar'kov, Engineer; A. Ye. Leonov, Docent, A.I. Tupitsyn, Candidate of Technical Sciences; and S.M. Khar'kov, Candidate of Technical Sciences; Eds.: Ya. Ye. Pomay, G.I. Kordash, and I.P. Lyulyuk; Tech. Ed.: N.I. Limanova.

REMARKS: This collection of articles is intended for technical and scientific personnel, outstanding workers, and stock writers of communist labor.

COVERAGE: The multifaceted experience of Khark'ov enterprises in the mechanization, automation, and improvement of manufacturing processes is generalized. The development of new machines, instruments, and production methods is considered and attention is given to newly established enterprises, and to the introduction of telemechanics in the Khark'ov gas-system management. By including concrete examples and facts, the authors of the various articles attempt to demonstrate the achievements of the Khark'ov industrial complex in fulfilling the resolutions of the June (1959) and July (1960) Plenums of the Central Committee of the Communist Party of the Soviet Union. No personalities are mentioned. There are no references.

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Subenko-Shubis, L.A. [Corresponding Member of the Academy of Sciences of the USSR]. Chief Engineer of the Khar'kovskiy turbinnyy zavod -- Khar'kov Turbine Plant]. The Development of Steam-Turbine Building at the Khar'kov Turbine Plant Plant Plant Plant 79

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AVAILABLE: Library of Congress (TJ1163.M395)	

TRINCHENKO, P.S.

Mechanization of production at the Kharkov "Krasnyi Oktiabr'" Plant.
Stroi. i dor. mashinostr. 5 no.12:30-32 D '60. (MIRA 13:11)

1. Direktor Khar'kovskogo zavoda "Krasnyy Oktyabr'".
(Building materials industry--Equipment and supplies)

TRINCHER, K.S., kandidat biologicheskikh nauk (Miass)

Apparatus for intrapleural operations. Klin. med. 32 no.12:78-80
D '54. (MLRA 8:3)

1. Iz tuberkuleznogo otdeleniya (sav. K.S.Trincher) gorodskoi
bol'nitsy g.Miass.

(PLEURA, surgery
intrapleural drainage & lavage, appar.)

ACCESSION NR: AP4015082

S/0205/64/004/001/0036/0040

AUTHOR: Trinchier, K. S.; Kuzin, A. M.

TITLE: Significance of water in erythrocyte radiation damage

SOURCE: Radiobiologiya, v. 4, no. 1, 1964, 36-40

TOPIC TAGS: erythrocyte radiation damage, gamma-irradiation, erythrocyte water medium, closely packed erythrocytes, optical density change, active water radical, erythrocyte radioprotection, erythrocyte water film, direct radiation injury, erythrocyte water distribution

ABSTRACT: The possibility that the active water radicals surrounding erythrocytes play a dominant role in erythrocyte membrane radiation damage has been suggested by the authors' earlier investigations. To test this possibility, radiosensitivity of erythrocytes suspended in a physiological solution was compared with closely packed erythrocytes produced by centrifuging the same suspension for 5 min. The erythrocyte samples were gamma-irradiated (^{60}Co , 700 r/min) with 5000 r doses. Radiation damage was determined photometrically by optical density change. Close packing of erythrocytes was found to be

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ACCESSION NR: AP4015082

responsible for approximately 20% radioprotection. Additional experiments were conducted with closely packed erythrocytes to find whether this protective action can be attributed to depression of metabolic processes. Findings showed that radioprotection of closely packed erythrocytes is not caused by metabolic processes, but by the reduced volume of water surrounding the erythrocyte and the subsequent reduced number of water radicals reaching the erythrocyte. To find whether the remaining 80% erythrocyte radiation damage is caused by radiation acting directly on the erythrocyte structure or only on the water film enveloping the erythrocyte, erythrocyte samples were irradiated in an isotonic medium containing 0.5% glucose. Radioprotection increases to 55% in the presence of glucose which does not penetrate into the erythrocyte. This protective action can be attributed to interception of the shortlived water radicals formed in the water films enveloping the erythrocytes and is related to radiation acting indirectly on erythrocyte structure. On the bases of water distribution within the erythrocyte and also on the basis of the literature, it is estimated that 20% of radiation damage is caused by direct injury of erythrocyte membrane macromolecules. Shortlived water radicals in the water film enveloping the erythrocyte or direct radiation action on the lipoprotein complexes of the cell surface layer may account for the remaining

Card 2/3

ACCESSION NR: AP4015082

25% radiation damage. The mechanisms which increase erythrocyte membrane radiosensitivity in a physiological solution are applicable to other cellular structures. Orig. art. has: 5 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow
(Institute of Biological Physics AN SSSR)

SUBMITTED: 25Sep63

DATE ACQ: 12Mar64

ENCL: 00

SUB CODE: LS

NO REF SOV: 005

OTHER: 011

Card 3/3

FD-2435

USSR/Biology - TRINCHER, K. S.

Card 1/1 Pub 17-18/21

Author : *Trincher, K. S. Cand Biol Sci

Title : ~~Trincher, K. S.~~
The resistance of tissues of various organs to an active reaction of a medium

Periodical : Byul. eksp. biol. i med. 39, 68-71, Jan 1955

Abstract : Author studied tissues from lungs, kidneys, and mesentery of different warm-blooded and cold-blooded animals and their resistivity to artificial media of $pH \approx 4 \approx 11$. Since the lungs and kidneys of warm-blooded animals take an active part in the regulation of the acid-alkaly balance of the organism they must depend on their resistivity to a more or less wide pH zone. At $pH \approx 4$ lungs, kidneys, and mesentery were found to suffer paranecrosis; lungs were irreversibly damaged at $pH \approx 5.2$; injury to the mesentery at $pH \approx 5.2$ was incompletely reversible; kidneys were markedly resistant, damage being completely reversible. In a neutral medium ($pH \approx 7$) the lungs showed paranecrosis. Above $pH \approx 7$, there was paranecrosis and formation of granulation. 2 references: 2 USSR, 2 since 1940, tables.

Institution: Chair of Pharmacology (Prof K. A. Meshcherskaya) Chelyabinsk Medical Institute, and Tuberculosis Department (*Head, Cand Biol Sci K. S. Trincher) Miass Municipal Hospital; Chelyabinskaya Oblast

Submitted : May 4, 1953

TRINCHER, K.S.

Resistance of erythrocytes following modification of active reaction
of the medium. Biul. eksp. biol. i med. 40 no.12:51-52 D '55.

(MLRA 9:3)

1. Iz kafedry patofiziologii (zav.-prof. R.A. Dymshits)
Chelyabinskogo meditsinskogo instituta (dir.-prof. G.D. Obratsov)
i iz Tuberkuleznogo otdeleniya (zav.-kandidat biologicheskikh nauk
K.S. Trincer) Miasnoy gorodskoy bol'nitsy.

(HYDROGEN ION CONCENTRATION, effects,
on erythrocyte resist.)

(ERYTHROCYTES,
resist., eff. of pH)

TRINCHER, K.S.

Effect of temperature on low- and high-frequency electric conductivity of blood and its connection with the structure of erythrocytes. Biofizika 1 no.2:113-119 '56. (MLRA 9:9)

1. Biologo-pechvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta. (TEMPERATURE--PHYSIOLOGICAL EFFECT)(ERYTHROCYTES)(ELECTROPHYSIOLOGY)

TRINCHER, K.S.

Lungs as a heat producing organ [with summary in English]. Biofizika
2 no.6:675-685 '57. (MIRA 10:12)

1. Gosudarstvennyy meditsinskiy institut, Semipalatinsk.
(LUNGS) (ANIMAL HEAT)

TRINCHER, K.S.

Decline of the resistance of irradiated erythrocytes in alkaline media and relation of the latent period of alkaline hemolysis to the radiation dose [with summary in English]. Biofizika 4 no.1: 78-83 Ja '58. (MIRA 12:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(HEMOLYSIS, effect of radiations,
x-rays, relation of dose to latency period of
alkaline hemolysis (Rus))
(ROENTGEN RAYS, effects,
on hemolysis, relation of radiation dose to latency
period of alkaline hemolysis (Rus))

TRINCHEV, K.S. (Moskva)

Bipolar theory of the dielectric structure of cells. Usp.sovr.biol.
45 no.3:261-271 My-Je '58 (MIRA 11:8)

(HISTOLOGY,

bipolar theory of dielectric structure of cell,
review (Rus))

(ELECTROPHYSIOLOGY,

same (Rus))

EXCERPTA MEDICA Sec 2 Vol 12/7 Physiology July 59.

2910. DEPENDENCE OF THE LIPOPEXIC FUNCTION OF THE LUNGS ON ENVIRONMENTAL TEMPERATURE (Russian text) - Trincher K. S.
Semipalatinsk Med. Inst., Semipalatinsk - BYULL. EKSPER. BIOL. I MED.
1958, 46/10 (65-68) Tables 1

The quantity of lipids was determined in the lungs of rats, cats and guinea-pigs. A slightly increased content of lipids was demonstrated in the lung tissue of animals kept at low temperature.

(II, 5, 15)

CHIZHEVSKIY, Aleksandr Leonidovich, prof.; KORZHUYEV, P.A., doktor biolog.
nauk, otv.red.; TRINCHER, K.S., red.izd-va; ASTAP'YEVA, T.A.,
tekhn.red.

[Structural analysis of circulating blood] Strukturnyi analiz
dvizhushcheisia krovi. Moskva, Izd-vo Akad.nauk SSSR, 1959.
473 p. (MIRA 12:12)

(ERYTHROCYTES)

EXCERPTA MEDICA Sec 2 Vol 12/9 Physiology Sept 59

3844. DECLINE OF IRRADIATED ERYTHROCYTE RESISTANCE IN ALKALINE MEDIUM AND DEPENDENCE OF THE LATENT PERIOD OF ALKALINE HAEMOLYSIS ON THE RADIATION DOSE (Russian text) - Trincer K. S. - BIOFIZIKA 1959. 4/1 (78-83) Graphs 2 Tables 1

The resistance of irradiated erythrocytes to the subsequent effect of alkaline medium was sharply diminished as compared to the resistance of non-irradiated erythrocytes. Irradiated and non-irradiated erythrocytes showed about the same resistance to the subsequent effect of an acid medium. The dependence of the latent period of alkaline haemolysis on the dose of blood irradiation is of a simple exponentially decreasing character. It may be supposed that the surface layer of the erythrocyte contains a great number of radiosensitive spots which are damaged according to the 'target theory' and that this damage causes the diminution of the latent period of alkaline haemolysis. (II, 5, 14)

TRINCHER, K.S.; ORLOVA, L.V.

Concentration dependence of the velocity of erythrocyte destruction
in an alkaline medium. Biofizika 10 no.3:540-542 '65.
(MIRA 18:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted
July 17, 1964.

L 10419-66

AM5026847

BOOK EXPLOITATION

UR/

Trincher, Karl Sigmundovich

63
241
Biology and information; elements of biological thermodynamics (Biologiya i informatsiya; elementy biologicheskoy termodinamiki), Moscow, Izd-vo "Nauka", 1964. 98 p. illus., biblio. (At head of title: Akademiya nauk SSSR. Institut biologicheskoy fiziki) 5,200 copies printed.

TOPIC TAGS: biology, biophysics, genetics, biologic aging, temperature adaptation, thermodynamic law, cybernetics, existence

PURPOSE AND COVERAGE: This book on biological thermodynamics is a study of the physical laws of living nature. An attempt is made to formulate thermodynamic laws governing existence and development of living organisms. New concepts are introduced to explain the thermodynamics of material, concrete and objective characteristics of life. The book shows that intracellular water is in a state of thermal lability. The author bases his study on two main rules: "the law of biological adaptation" and "the law of accumulation of information". This book is recommended for biologists, biophysicists, physicists, cyberneticians, philosophers, scientific workers, aspirants and students of corresponding fields.

Card 1/2

UDC: 57 : 519.92+536.7
2

L 10419-66

AM5026847

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SUB CODE: LS, TD

NO REF SOV: 065

Card 2/2

SUBMITTED: 17Aug64

OTHER: 052

TRINCHER, K.S.; KUZIN, A.M.; BREGADZE, Yu.I.; GINTSBURG, E.I.

Radiation injury of erythrocytes, suspended in native and protein-free medium, by various kinds of irradiation.
Radiobiologiya 5 no.2:174-178 '65.

(MIRA 18:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

TRINCHER, K.S.

Concerning articles: "Applicability of the second principle of thermodynamics to living matter" by I.U.P. Syrnikov, "More on the applicability of Prigozhin's theorem to biology" by A.I. Bykhovskii, and "Applicability of Prigozhin's theorem to the process of embryogenesis and evolution" by M.B. Berkinblit. Biofizika 10 no.6:1109-1112 '65. (MIRA 19:1)

TRINCHER, Karl Sigmundovich, st. nauchn. sotr.; BERNISHTEYN, N.A.,
prof., otv. red.; KOLPAKOVA, Ye.A., red.

[Biology and information; elements of biological thermo-
dynamics] Biologiya i informatsiya; elementy biologiches-
koi termodinamiki. Moskva, Nauka, 1965. 118 p.

(MIRA 18:8)

1. Institut biologicheskoy fiziki AN SSSR (for Trinchner).

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756620002-2

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756620002-2"

TRINCHER, K.S.; GINTSBURG, E.I.

Adaptive changes in hemoglobin during erythropoiesis. Fiziol. zhur.
49 no.5:621-625 My '63. (MIRA 17:11)

1. From the Institute of Biological Physics U.S.S.R. Academy of
Sciences, Moscow.

ABSTRACT One of the leading methodological problems of cybernetics during its

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SECRET

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756620002-2"

KUZIN, A.M.; TRANCHER, K.S.

Enzymatic analysis of the surface layer of erythrocytes.
Biofizika 7 no.5:599-601 '82. (MIRA 17:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

TRINCHER, K.S.

Thermodynamic theorem of biological evolution. Biofizika 7
no.6:740-744 '62. (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

TRINCHER, K.S.; KUZIN, A.M.

Significance of water in radiation damage of the erythrocytes.
Radiobiologiya 4 no.1:36-40 '64. (MIRA 17:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

TRINCHER, K.S.

Thermodynamics of biological processes. Zhur. fiz. khim. 37
no.5:1043-1048 My '63. (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR.

TRINCHER, K.S.; GINISBURG, E.I.

Kinetics of the enzymatic destruction of the cell membrane
of an erythrocyte. Biofizika, 7 no.2:244-247'62.(MIRA 16:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(ERYTHROCYTES) (TRYPSIN)

TRINCHER, K.S.; MOZZHUKHIN, A.S.

Correlation between the metabolic intensity of a radio-
sensitive organ and the effective dose of a radiation-
protective agent. Radiobiologiya 3 no.4:626-627 '63.
(MIRA 17:2)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

AUTHOR: Trinchin, A. I.; Medvedev, A. I.

TITLE: Correlation between the metabolism rate of a radiosensitive organ and the effective dose of a radioprotector

SOURCE: Radiobiologiya, v. 3, no. 4, 1963, 626-627

TOPIC TAGS: radioprotector, cysteamine, cysteamine radioprotector, metabolism rate, radiosensitive organ

ABSTRACT: Data on the dose of a radioprotector¹⁹ (cysteamine) used against irradiation with a lethal dose and the metabolism rate of the whole organism and individual organs are presented. The effective dose of cysteamine for the whole organism of the animal, on the other hand, is determined. The rate of the metabolism rate to the cysteamine dose for the whole organism is 17.6 mg/kg. The rate of the metabolism rate to the cysteamine dose for the whole organism is 17.6 mg/kg. The rate of the metabolism rate to the cysteamine dose for the whole organism is 17.6 mg/kg.

Card 2/2

case of the spleen: for mice it was 0.114; for rats, 0.127; for rabbits, 0.116; for cats, 0.113 and for dogs, 0.111. The data show that the effectiveness of a radioprotector is directly proportional to the metabolism rate of the radiosensitive organs: the higher the metabolism rate of the radiosensitive organ, the greater the dose of the radioprotector used. Orig. art. has: 1 table and 1 figure.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biophysics, AN USSR)

SUBMITTED: 23Apr63

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: AM

NO REF SOV: 001

OTHER: 000

Card 2/2

L 9897-63

ACCESSION NR: AP3000413

S/0076/63/037/005/1043/1048

AUTHOR: Trincher, K. S.

44

TITLE: Thermodynamics of biological processes

SOURCE: AN SSSR. Zhurnal fizicheskoy khimii, v. 37, no. 5, 1963, 1043-1048

TOPIC TAGS: thermodynamics, biological processes, Prigogine's theory of minimum entropy production, embryogenesis, biologic evolution

ABSTRACT: Prigogine's theory of minimum entropy production describes the thermodynamics of the relatively stable situation obtaining in adult organisms. In investigating the applicability to open systems in the growth phase, the author concluded that it does not hold for the phase of embryogenesis in mammals and animals, which is characterized by an increase in specific entropy production. The sequential specialization of cells (differentiation) during embryogenesis (ontogeny) is a teleadapted reproductive mechanism. In thermodynamic terms as the development of increasingly probable states. Orig. art. has: 2 figures and 21 equations.

Card 1/21

TRINCHER, K.S.

Law of biological adaptation. Dokl.AN SSSR 149 no.3:717-720
Mr. '63. (MIRA 16:4)

1. Institut biologicheskoy fiziki AN SSSR.
(Adaptation (Biology))

27.1220

41842

S/205/62/002/004/001/014

1015/1215

AUTHOR: Trincher, K.S., and Mikhaylova, A.A.

TITLE: The dielectric structure of liver cells and the effects of radiation and cysteine

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 523-529

TEXT: Electron-microscopic studies reveal the extremely heterogeneous structure of cells. This can be shown physiologically, by measuring electrical parameters in the presence of an external electrical field. The measurement of the electrical resistance in the liver tissue of rats was carried out under a series of conditions: after administration of cysteine - a radioprotective agent which brings about reversible changes in the measured parameters; after irradiation of the animals with a lethal dose which causes irreversible changes in the measured parameter; and after the administration of cysteine together with subsequent irradiation. It was found that the dielectric structure of the liver cell corresponds to the model of a dielectric dipole: in the absence of any external electric field, an electrical equilibrium is reached, the charges being mutually neutralized, but by inducing an external electric field the whole cell space becomes charged as a result of the

Card 1/2

S/205/62/002/004/001/014
1015/1215

The dielectric structure of...

rotating dipole molecules. Radiation brings about a degradation of the dielectric structure of the liver cell, whereas cysteine increases the dielectric properties of the liver cell, due to partial immobilisation of the dipole molecules. There are 4 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR (Institute of Biophysics, AS USSR) Moscow

SUBMITTED: April 16, 1962

Card 2/2

TRINCHER, K.S.

Applicability of Prigogine's theorem to biology. Biofizika 6 no.6:
750-752 '61. (MIRA 15:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(BIOLOGY) (THERMODYNAMICS)

TRINCHER, K.S.; KUZIN, A.M.

Effect of radiation protective agents on the surface layer of
erythrocytes. Radiobiologiya 1 no.1:30-36 '61. (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(RADIATION PROTECTION) (ERYTHROCYTES)

SHTERN, L.S., akad., otv.red.; RAPOPORT, S.Ya., doktor med.nauk, red.;
ROSIN, Ya.A., doktor med.nauk, zam. otv. red.; UTEVSKAYA, L.B., kand.
biol.nauk, red.; TRINCHER, K.S., red. izd-va; VOLKOVA, V.V., tekhn.red.

[Histohematic barriers; transactions of the conference] Gisto-gemati-
cheskie bar'ery; trudy soveshchaniia. Moskva, Izd-vo Akad.nauk SSSR,
1961. 406 p. (MIRA 14:12)

1. Konferentsiya po voprosam neposredstvennogo vozdeystviya na nervnyye
tsentry. 3d, Moscow, 1960. 2. Laboratoriya fiziologii pri Institute bio-
logicheskoy fiziki AN SSSR (for Utevskaia).
(CAPILLARIES—PERMEABILITY)

TRINCHER, K.S. (Moskva)

Thermogenic function of the lungs. Usp. sov. biol. 49 no.2:201-
214 Mr-Apr '60. (MIRA 13:11)
(LUNGS) (BODY TEMPERATURE—REGULATION)

TRINCHER, K.S.

Mechanisms of radiation-induced, thermal, and alkaline hemolysis and determination of a structural unit of the surface layer of erythrocytes in the irradiation of blood. Biofizika 4 no. 6:731-737 '59.
(MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(RADIATION—PHYSIOLOGICAL EFFECT) (ERYTHROCYTES)
(HEMOLYSIS AND HEMOLYSINS)

TRINCHER, K. S. AND KUZIN, A. M.

"The enzymatic analysis of erythrocyte surface layer structure."

report submitted for the 1st Intl. Biophysics Congress, Stockholm 31
July - 4 August 1961.

TRINCHER, K.S.

Physical meaning the dosage coefficient in thermal treatment of the blood. Biofizika 5 no. 4:502 '60. (MIRA 13:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(BLOOD PROTEINS) (HEAT—PHYSIOLOGICAL EFFECT)

KUZIN, A.M.; TRINCHER, K.S.

Modification of radiosensitivity in erythrocytes. Biofizika 5
no. 5:533-538 '60. (MIRA 13:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(ERYTHROCYTES) (GAMMA RAYS--PHYSIOLOGICAL EFFECT)

TRINCHER, K.S.; TOKARSKAYA, V.I.

Primary and initial mechanisms of the biological activity of
nuclear radiations. Biofizika 5 no. 6:758-761 '60.

(MIRA 13:10)

(RADIOACTIVITY—PHYSIOLOGICAL EFFECT)

TRINCHER, K.S.

Causes of increased carbonic anhydrase activity in the lungs.
Fiziol.zhur. 46 no.6:726-728 Js '60. (MIRA 13:8)

1. From the Institute of Biophysics, Academy of Sciences of the
U.S.S.R., Moscow.
(LUNGS) (CARBONIC ANHYDRASE)

TRINCHER, K.S., KUZIN, A.M.

"The Enzymatic Analysis of Erythrocyte Surface Layer Structure."

report presented at the Intl. Biophysics Congress, Stockholm, Sweden,
31- July - 4 August 1961.

Institute of Biophysics, USSR Academy of Science, Moscow, USSR.

TRINCHER, Karl Sigmundovich; KORZHUJEV, P.A., doktor biolog.nauk, otv.red.;
KOLOMITSEVA, I.K., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Heat-forming function and the alkali reaction in lung tissue]
Teploobrazovatel'naya funktsiya i shchelochnost' reaktsii legochnoi
tkani. Moskva, Izd-vo Akad.nauk SSSR, 1960. 105 p.

(MIRA 14:3)

(LUNGS)

KOVALENKO, A.F., inzh.; TRINCHER, Yu.K., inzh.; GRIGOR'YEV, V.Ya., inzh.;
POPOV, A.G., arkhitekt

Unify the parameters of buildings and installations of sintering
and dressing factories. Prom. stroi. 41 no.10:2-5 0 '63.
(MIRA 16:11)

TRINCHER, V.K.

New method for determining the supercritical equilibrium of a
cylindrical shell under axial compression. Vest. Mosk. un. Ser.
1: Mat., mekh. 20 no.1:76-82 Ja-F '65. (MIRA 18:4)

1. Kafedra teorii uprugosti Moskovskogo universiteta.

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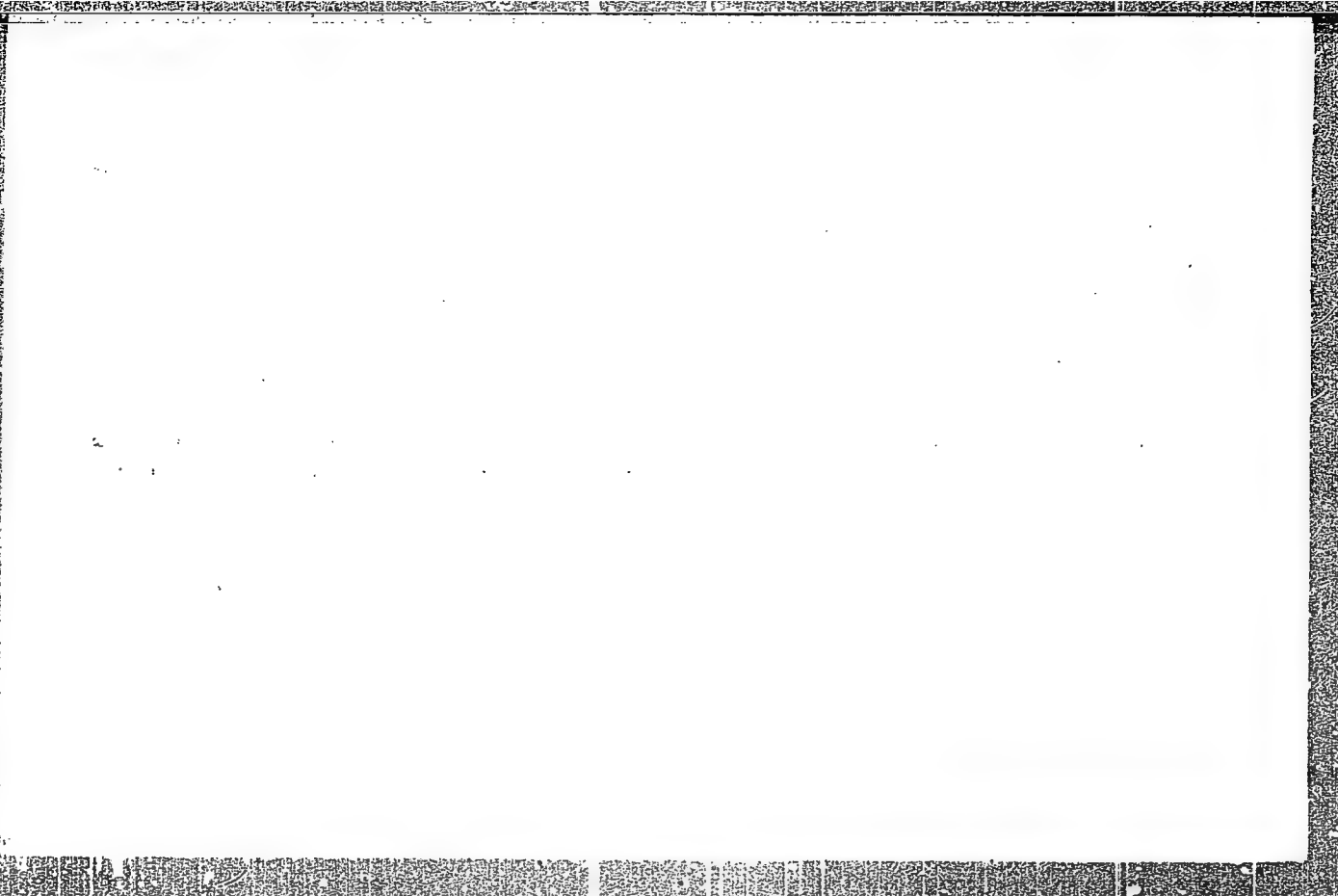
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CIA-RDP86-00513R001756620002-2"

TRINCLA, I.

"Potato rejuvenation." Tr. from the Russian. p. 52. (ANALELE ROMANO-SOVIETICE.
SERIA AGRICULTURA-ZOOTECIE, Vol. 6, seria a II-a, no. 11, July/Sept. 1952.
Bucuresti.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

TRINER, Stanislav; TRINER, Lubos, S Techn. spolupraci M. Valtejskove a M. Kornalí-
kove

Changes in pressor response to adrenalin & noradrenalin after benarcos
& procaine administration. Cas. lek. cesk. 98 no.3:71-76 16 Jan 59.

1. Kontrolni ustav farmaceuticky a farmakologicky ustav KU v Praze
St. T., Praha 2, Tyrsova 7.

(BLOOD PRESSURE, eff. of drugs on

procaine & ephedrine-eucodal-scopolamine prep. potentiation
of pressure response to arterenol & epinephrine in dogs &
rabbits, review (Cz))

(PROCAINE, eff.

potentiation of blood pressure response to arterenol & epin-
ephrine in dogs & rabbits, review (Cz))

(EPHEDRINE, eff.

ephedrine-eucodal-scopolamine prep., potentiation of blood
pressure response to arterenol & epinephrine in dogs &
rabbits, review (Cz))

(SCOPOLAMINE, eff.

same)

(CODEINE, related compounds

eucodal-ephedrine-scopolamine prep., potentiation of blood
pressure response to arterenol & epinephrine in dogs & rab-
bits, review (Cz))

TRINER, L.; MRAZ, M.

Some biochemical changes in the blood after dextrane administration.
Physiol. bohemoslov. 12 no.2:128-135 '63.

1. Institute of Pharmacology, Faculty of General Medicine, Charles
University, Prague.

(DEXTRAN)	(PROTEINS)	(BLOOD CHEMICAL ANALYSES)
(FATTY ACIDS)	(CALCIUM)	(BLOOD PROTEINS) (BLOOD, LIPIDS)

TRINER, L.; MRAZ, M.; CHMELAROVA, M.

The effect of glucose and glucose together with insulin on the resistance of fasted rats to trauma in the Noble-Collip drum. Physiol. bohemoslov. 12 no. 2:136-144 '63.

1. Institute of Pharmacology, Faculty of General Medicine, Charles University, Prague.

(GLUCOSE)	(INSULIN)	(FASTING)	(SHOCK TRAUMATIC)
(LIVER GLYCOGEN)	(MUSCLE GLYCOGEN)	(MUSCLES)	

MRAZ, M.; TRINER, L.; CHMELAROVA, M.; KRAUS, R.

On the possibility of parenteral administration of maltose.
Bratisl. lek. listy 43 no.3:156-162 '63.

1. Z farmakologickeho a embryologickeho ustavu fak. vseob. lek.
KU v Praze, vedouci doc. MUDr. M. Wenke a akademik J. Wolf, Dr.Sc.
(MALTOSE) (INFUSIONS PARENTERAL)

TRINER, L.; MRAZ, M.; CHMELAROVA, M.

The favourable effect of glucose and glucose with insulin administered in a dextrane solution on the course of haemorrhagic shock in rabbits. *Physiol. Bohemoslov.* 13 no.1:87-95 '64.

1. Institute of Pharmacology, Faculty of General Medicine, Charles University, Prague.

*

TRINER, L.; HAVOVA, E.; KYPSON, J.

Utilization of glucose by erythrocytes in shock. Cas. lek. cesk. 102
no.12:316-321 22 Mr '63.

1. Farmakologicky ustav fakulty vseobecneho lekarstvi KU v Praze,
prednosta doc, dr. M. Wenke.

(ERYTHROCYTES)	(GLUCOSE)	(CARBOHYDRATE METABOLISM)
(SHOCK)		

MEAZ, M.; TRINER, L.

Pharmacological effect on shock. Cesk. fysiolo. 9 no.1:88 Ja 60.

1. Farmakologicky ustav fak. vseob. lek. KY, v Praze.
(SHOCK, exper.)

MRAZ, M.; TRINER, L.

Pharmacological influence on experimental shock. Cesk. fysiол. 8
no.3:226-227 Apr 59.

1. Farmakologicky ustav fak. vseob. lek. KU, Praha. Predneseno na
III. fysiologickych dnech v Brne dne 14. 1. 1959.
(SHOCK, experimental,
eff. of various drugs (Cz))

KALOUSKOVA, J.; MRAZ, M.; SONKA, J.; TRDNER, L.

Erythrocyte glucose metabolism following chlorpromazine therapy. Cesk. fysiolo. 7 no.3:260-261 May 58.

1. Farmakologicky ustav KU, Praha, III. int. Klinika FVL, Praha.
(CHLORPROMAZINE, eff.
on erythrocyte glucose content (Cz))
(BLOOD SUGAR, eff. of drugs on,
chlorpromazine (Cz))

TRINER, L.; MRAZ, M.

Relation of the effect of chlorpromazine and pentamethonium to the time of administration in burn shock. *Physiol. Bohemoslov.* 11 no.1:24-29 '62.

1. Department of Pharmacology, Faculty of General Medicine, Charles University, Prague.

(CHLORPROMAZINE pharmacol)
(METHONIUM COMPOUNDS pharmacol)
(BURNS exper) (SHOCK exper)

CZECHOSLOVAKIA / Pharmacology, Toxicology, Narcotics. V

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 94117

Authors : Triber, Lubos; Triner, Stanislav.

Inst : Not given

Title : Strengthening the Effect of Amytal and Dormiphe-
ne with Kellin and Certain Flavones.

Orig Pub : Ceskosl. farmac., 1956, 5, No. 5, 288-290.

Abstract : Administering 50 mg/kg dormiphen (I) to the mice did not produce sleep. Sleep came after adding 2 mg/kg Kellin (II), corresponding to the effect of 75 mg/kg I. II strengthened the effect of amytal in the same degree. The most active of all the flavonic derivatives used for the intensification of the somnific effect, is found to be apigeninsulfonic acid. The authors link the strengthening effect of II with its ganglion-blocking characteristics. -- A. G. Pinus.

Card 1/1